

SECTION 01030

CONTRACTOR QUALITY CONTROL, COORDINATION, PERMITS, TESTING

PART 1 - GENERAL

1.1 The Contractor is responsible for quality control and shall establish and maintain an effective quality control system in compliance with the Contract Clause entitled "Inspection of Construction."

1.2 Quality Control /Assurance.-

1.2.1 General.- The Contractor shall monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship to produce work of specified quality and to comply fully with specified requirements and manufacturers' instructions. The Contractor shall identify a competent person to ensure quality control/assurance. The contractor may select the project's supervisor or any person with a minimum of 5 years experience in projects of a similar scope. An independent Quality Control/Assurance officer is not necessary.

PART 2 - PRODUCTS

2.1 Submittals.- Procedures for processing shop drawings, samples, certificates, and other submittals shall be developed and submitted for approval as part of the Contractor's Quality Control Plan. Submit Contractor's Quality Control Plan upon award and to be approved prior to start of any work on site. The procedures shall include the establishment of responsibilities to assure at each level adequate review and approval; timely delivery, including verification procedures; and proper storage.

2.2 Certification.- The Contractor shall certify that the submittals comply with contract requirements. Submittals shall be as specified in Section 01300 SUBMITTALS.

2.3 Government Approved Submittals.- Submittals requiring Government approval will be identified as having received Contractor approval by being so stamped and dated. Delays in the approval process shall not be the basis for consideration of a time extension when such delay is the result of the Contractor's failure to make proper and timely submittal or make corrections in accordance with the specifications or the Contracting Officer's comments or is the result of a resubmittal which is required because of an unsatisfactory original submittal. Approval action will not relieve the Contractor of his responsibility for compliance with the contract but will indicate only that the general method of construction and detailing is satisfactory.

2.4 Deviations.- All proposed deviations from contract requirements shall be clearly indicated and submitted in writing for approval.

PART 3 - EXECUTION

3.1 Quality Reviews.-

3.1.1 Control.- Contractor Quality Control is the means by which the Contractor ensures that the construction, to include that of subcontractors and suppliers, complies with the requirements of the contract. The controls shall be adequate to cover all construction operations, including both on-site and off-site fabrication. The controls shall include at least three phases of control for all definable features of work, as follows:

3.1.2 Preparatory Phase.- This phase shall be performed prior to beginning work on each definable feature of work and shall include:

- (a) A review of each paragraph of applicable specifications.
- (b) A review of the contract plans.
- (c) A check to assure that all materials and drawings have been submitted, and approved.
- (d) A physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawing or submitted data, and are properly stored.
- (e) The Government shall be notified of any of the required action of the preparatory phase. The Contractor shall instruct applicable workers as to the acceptable level of workmanship required in order to meet contract specifications.

3.1.3 Initial Phase.- This phase shall be accomplished at the beginning of a definable feature of work. The following shall be accomplished:

- (a) A check of preliminary work to ensure that it is in compliance with contract requirements and submittals.
- (b) Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with sample panels is appropriate.
- (d) The Government shall be notified at least 48 hours in advance of beginning the initial phase.

3.1.4 Follow-up Phase.- Daily checks with the RE shall be performed to assure continuing compliance with contract requirements. The Contractor shall not build upon or conceal non-conforming work.

3.1.5 Additional Preparatory and Initial Phases.- Additional preparatory and initial phases may be conducted on the same definable features of work as determined by the Government if the quality of on-going work is unacceptable; or if work is resumed after a substantial period of inactivity, or if other problems develop.

3.2 Contractor Request For Information (RFI).- In accordance with Contract Clause " **Specifications, Drawings, and Material Submittals**", in case of discrepancy either in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the RE, who shall promptly respond in writing. Submit a written request to the RE and allow a response period in accordance with specification section "Submittals" for Government response. Include the date of the request, the date response is needed, a description of the problem, identification of work on hold, impact of delay in Government response, scope changes deemed necessary and recommended solutions, and any other information pertinent. The Government reserves the right to charge the contractor for administrative costs associated with responding to an RFI, which does not involve discrepancies in the specifications and drawings.

3.3 Testing Procedure.- The Contractor shall perform tests required to verify that control measures are adequate to provide a product which conforms to contract requirements.

3.4 Completion Inspection.- At the completion of all work or any increment, the contractor with the Resident Engineer shall conduct an inspection of the work and the contractor shall develop a "punch list" of items which do not conform to the approved plans and specifications.

3.5 Documentation.- The Contractor shall maintain current records of quality control operations, activities, and tests performed, including the work of subcontractors and suppliers. These records shall include but not limited to the following:

- (a) Contractor/subcontractor and their area of responsibility.
- (b) Work performed today, giving location, description, and by whom.
- (c) Material received.
- (d) Identify submittals reviewed, with contract reference, by whom, and action taken.
- (e) List instructions given/received and conflicts in plans and/or specifications.
- (f) Contractor's verification statement.
- (g) These records shall indicate a description of trades working on the project; the number of personnel working; weather conditions encountered; and any delays encountered. One report shall be prepared and submitted for every seven days of no work and on the last day of a no work period. All calendar days shall be accounted for throughout the life of the contract. Reports shall be signed and dated by the Contractor.

3.6 Sample Forms.- Sample Contractor Quality Control Report forms are enclosed at the end of this section. The contractor shall choose one form or submit another one for approval.

3.7 Notification of Noncompliance.- The Contracting Officer will notify the Contractor of any detected noncompliance with the foregoing requirements. The Contractor shall, after receipt of such notice, immediately take corrective action. Such notice, when delivered to the Contractor at the site of the work, shall be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No part of the time lost due to such stop orders shall be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

3.8 Coordination, Local Permits and Testing.-

3.8.1 Project Coordination.-

- (a) It shall be the duty of the Contractor to prepare a detailed schedule of work and work layout to resolve conflicts and to assure coordination of the work by different trades.
- (b) It shall be the duty of the Contractor to resolve all coordination conflicts that arise among his subcontractors. If, in the opinion of the RE, a potential or actual conflict exists, the RE will notify the CO, who shall instruct the contractor to take immediate steps to coordinate the work and resolve any conflicts.
- (c) Two Week Look-Ahead Schedule - Contractor shall provide a two week look-ahead schedule to the Resident Engineer. The schedule shall provide specific location where work will take place, start/stop dates and the prime/sub contractor performing the work. The activities in the schedule shall coordinate with the Activity Hazard Analysis requirement.

3.8.2 Local Permits.-

- (a) The Contractor shall make notification, application, pay fees, etc., to obtain disposal permits if required. A building permit is not required.
- (b) This project is designed in accordance with the International Building Code. The Contractor shall perform all work in compliance with the latest edition of this code.

3.8.3 Testing.- The Contractor shall arrange and pay for the services of Independent Testing Laboratories/Engineers to perform specified services and testing as required. (sample of typical Contractor's daily report)

END OF SECTION

**SALT LAKE CITY ARTCC
BOILER AND CHILLER CONTROLS UPGRADE**

OCTOBER 2011

DAILY CONSTRUCTION QUALITY CONTROL REPORT

Contract Number: _____ Date: _____ Rpt No. _____

Contract Title: _____ Location: _____

Weather: Clear __ P.Cloudy __ Cloudy __ Rainfall __ (__% of workday)

Temperature during workday: High ____ degrees F. Low ____ degrees F.

1. WORK PERFORMED BY CONTRACTOR/SUBCONTRACTOR(S):

Contractor Name No. of Workers Crafts/Hours Work performed

2. EQUIPMENT DATA:

Type, Size, Etc. Owned/Rented Hours Used Hours Standby

3. QUALITY CONTROL INSPECTIONS AND RESULTS: (Include a description of preparatory, initial, and/or follow up inspections or meetings; check of subcontractors work and materials delivered to the site compared to submittals and/or specifications; comments on the proper storage of materials; include comments on corrective actions to be taken):

4. QUALITY CONTROL TESTING AND RESULTS (comment on tests and attach test reports):

5. DAILY SAFETY INSPECTIONS (Include comments on new hazards to be added to the Hazard Analysis and corrective action of any safety issues):

6. REMARKS (Include conversations with or instructions from the Government representatives; delays of any kind that are impacting the job; conflicts in the contract documents; comments on change orders; environmental considerations; etc.):

CONTRACTOR'S VERIFICATION: The above report is complete and correct. All material, equipment used, and work performed during this reporting period are in compliance with the contract documents except as noted above.

CONTRACTOR QC REPRESENTATIVE

SALT LAKE CITY ARTCC
BOILER AND CHILLER CONTROLS UPGRADE

OCTOBER 2011

TEST REPORT

STRUCTURE OR BUILDING _____ CONTRACT NO. _____

DESCRIPTION OF ITEM, SYSTEM, OR PART OF SYSTEM TESTED: _____

DESCRIPTION OF TEST: _____

NAME AND TITLE OF PERSON IN CHARGE OF PERFORMING TESTS FOR CONTRACTOR:

NAME _____ TITLE _____

SIGNATURE _____

I HEREBY CERTIFY THAT THE ABOVE DESCRIBED ITEM, SYSTEM, OR PART OF SYSTEM
HAS BEEN TESTED AS INDICATED ABOVE AND FOUND TO BE ENTIRELY SATISFACTORY
AS REQUIRED IN THE CONTRACT SPECIFICATIONS.

SIGNATURE OF CONTRACTOR QUALITY CONTROL INSPECTOR _____

DATE _____

REMARKS: _____

SALT LAKE CITY ARTCC
BOILER AND CHILLER CONTROLS UPGRADE

OCTOBER 2011

DAILY CONSTRUCTION QUALITY CONTROL REPORT

Contract No.: _____ Date: _____ Report No. _____

Description and Location of Work: _____

WEATHER: (Clear) (P. Cloudy); Temperature: _____ Min. _____ Max;
(Snow) (Rainfall) _____ Inches

Contractor/Subcontractor Activity:

	Work in Progress	Contractor/ Subcontractor	Craft	Time Worked
a.	_____	_____	_____	_____
b.	_____	_____	_____	_____
c.	_____	_____	_____	_____
d.	_____	_____	_____	_____
e.	_____	_____	_____	_____
f.	_____	_____	_____	_____

Equipment Data: (Indicate items of construction equipment, other than hand tools, at the job site and whether or not used.)

	Equipment	Contractor/ Subcontractor	Craft	Time Used
a.	_____	_____	_____	_____
b.	_____	_____	_____	_____
c.	_____	_____	_____	_____
d.	_____	_____	_____	_____